

Art Unit: 2833

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (previously presented) A transmission board comprising:
a first surface board having at least one first transmission circuit on a first surface thereof and first connection pads on a second surface thereof opposite to the first surface, said first surface board having a first edge portion along which the first connection pads are arranged;

a second surface board having at least one second transmission circuit on a third surface thereof and second connection pads on a fourth surface thereof opposite to the third surface, said second surface board having a second edge portion along which the second connection pads are arranged; and

a frame body for supporting the first and second surface boards so that the first transmission circuit is apart from the second transmission circuit by a specific distance according to a specific characteristic impedance when the first transmission circuit and the second transmission circuit are operated in a differential operation, said frame body having one plugging edge attached to the first and second edge portions for covering the first and second edge portions.

2. (previously presented) The transmission board according to claim 1, wherein said frame body is adapted to support the first and second surface boards with a constant distance therebetween such that the first and third surfaces are opposed to each other.

Art Unit: 2833

3. (previously presented) The transmission board according to claim 1, wherein said first and second transmission circuits have the specific characteristic impedance of approximately 100 ohms in the differential operation.

4. (previously presented) The transmission board according to claim 1, wherein said first and second surface boards define a space therebetween to be filled with a layer of air or material having a relative permittivity and a dielectric loss tangent that are lower than those of a glass reinforced epoxy resin.

5. (currently amended) The transmission board according to claim 1, wherein said first and second transmission circuits include first and second ground circuits on the second and fourth surfaces and first and second signal circuits on the first and third surfaces, respectively, said first and second signal circuits being connected to said first and second connection pads through said first and second surface ~~board~~ boards.

6. (currently amended) The transmission board according to claim 1, wherein said frame body further includes at least one projecting guide extending from the one plugging edge in a plugging direction of ~~the~~ a mating connector such that upon plugging of the mating connector, said projecting guide enters a corresponding groove of said mating connector before the one plugging edge abuts against a terminal of said mating connector, said projecting guide having at least one raised portion on a top or bottom face thereof.

Art Unit: 2833

7. (previously presented) The transmission board according to claim 1, wherein said first and second surface boards further include conductive portions along the first and second edge portions, respectively, so that the first and second transmission circuits are connected to the first and second connection pads through the conductive portions, respectively.

8. (currently amended) The transmission board according to claim 1, wherein said first and second connection pad ~~is~~ pads are provided with ~~an extended contact~~ contacts that ~~is~~ are bent at the one plugging edge so as to cover ~~said guiding slope~~ slopes.

9. (currently amended) The transmission board according to claim 5, wherein at least one of said first and second ground circuits includes at least one ground connection pad having an extended portion aligned with at least one of the first and second connection pads.

10. (currently amended) The transmission board according to claim 1, further comprising a plurality of ~~the~~ guiding slopes disposed at positions corresponding to the first and second connection pads, said plurality of the guiding slopes having different sloping angles corresponding to the first and second connection pads.

11. (currently amended) The transmission board according to claim 10, wherein said plurality of the guiding slopes is disposed at positions alternately shifted in a plugging direction of ~~the~~ a mating connector.

Art Unit: 2833

12. (currently amended) The transmission board according to claim 1, wherein said one plugging edge has a protruding portion protruding above at least one of the second and fourth surfaces of the first and second surface boards.

13. (previously presented) The transmission board according to claim 1, wherein said frame body is provided with at least one projecting guide that projects from the one plugging edge in a plugging direction and has a vertical length that is larger than that of the one plugging edge.

14. (original) The transmission board according to claim 13, wherein said projecting guide is tapered in both vertical and horizontal directions.

15. (currently amended) The transmission board according to claim 13, ~~wherein at least one of said~~ further comprising another projecting ~~guides~~ guide ~~has~~ having a different cross-section from that of the ~~other~~ said at least one projecting ~~guides~~ guide in a plane perpendicular to said plugging direction.

16. (currently amended) The transmission board according to claim 1, wherein said frame body is provided with a stopper portion that abuts against ~~said~~ a mating connector when said transmission board is plugged to a predetermined position.

17. (currently amended) The transmission board according to claim 1, wherein said frame body is provided with a lock member for preventing separation from ~~said~~ a mating connector.

Art Unit: 2833

18. (currently amended) The transmission board according to claim 1, wherein said frame body is provided with a slit portion for receiving an engaging portion of a linking member for holding ~~a plurality of said transmission board boards at regular intervals.~~

19. (currently amended) The transmission board according to claim 1, wherein said frame body further includes a boss or projection, and at least one of the first and second surface boards further includes a hole or notch for receiving the boss or projection so that the frame body is attached to the at least one of the first and second surface ~~board~~ boards with heat and pressure.

20. (currently amended) The transmission board according to claim 1, wherein said frame body further includes another plugging edge, and said first and second surface boards further include third and fourth edge portions, respectively, said another ~~end~~ plugging edge being attached to the third and fourth edge portions for covering the third and fourth edge portions, said another plugging edge including a projecting guide that projects in a plugging direction of ~~the mate~~ a mating connector and has a vertical width larger than that of said ~~another one~~ one plugging edge.

21-28. (canceled)